PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP-8850PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2005/001342	International filing date (day/month/year) 31 January 2005 (31.01.2005)	Priority date (day/month/year) 26 February 2004 (26.02.2004)	
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CT/ISA/237		
Applicant DAIKIN INDUSTRIES, LTD.			

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In the attached sheets, any refer	ence to the written opinion of	the International Searching Authority should be read as a reference
to the international preliminary	report on patentability (Chapt	er i) mstead.
This report contains indications	relating to the following item	s:
Box No. I	Basis of the report	
Box No. Π	Priority	·
Box No. III	Non-establishment of opinapplicability	nion with regard to novelty, inventive step and industrial
Box No. IV	Lack of unity of invention	1
Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
Box No. VI	Certain documents cited	
Box No. VII	Certain defects in the inte	rnational application
Box No. VIII	Certain observations on the	ne international application
The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to des makes an express request und	ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but ler Article 23(2), before the expiration of 30 months from the priority
		Date of issuance of this report 19 September 2006 (19.09.2006)
34, chemin des Co	lombettes	Authorized officer Yoshiko Kuwahara
mile No. +41 22 338 82 70		e-mail: pt07@wipo.int
	International Searching Authorical This REPORT consists of a total In the attached sheets, any refer to the international preliminary This report contains indications Box No. II Box No. II Box No. IV Box No. VI Box No. VI Box No. VII Box No. VII The International Bureau will conot, except where the applicant date (Rule 44bis .2). The International Bureau des Conot 1211 Geneva 20, Second	This report contains indications relating to the following item Box No. I Basis of the report Box No. II Priority Box No. III Non-establishment of opin applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under applicability; citations and Box No. VI Certain documents cited Box No. VII Certain defects in the inte Box No. VIII Certain observations on the International Bureau will communicate this report to des not, except where the applicant makes an express request und date (Rule 44bis .2). The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland mile No. +41 22 338 82 70

Form PC1/18/3/3 (January 2004)

PATENT COOPERATION TREATY

From to INTER		NAL SEARCHII	NG AUTHOR	ITY		ANS.
To:						PCT PCT
			-			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
						(PCT Rule 43bis.1)
		<u>-</u> .			Date of mailing (day/month/year)	•
Applie	cant's or a	gent's file referen	ice		FOR FURTHER	ACTION
FP	-8850	OPCT				See paragraph 2 below
	-	plication No. 2005/001	342	International filing date ((day/month/year)	Priority date (day/month/year) 26.02.2004
Intern	ational Pa	tent Classificatio	n (IPC) or both	l national classification an	d IPC	4
	•					·
Applie	cant			•		
DA	IKIN	INDUSTR	IES, L	rd.		
,	This	ninian contains i	ndiagtions rela	ting to the following items	-	
1.			noicanons icia	ting to the following items	5.	
		Box No. I	Basis of the	opinion		
		Box No. II	Priority		•	
		Box No. III	Non-establi:	shment of opinion with re	gard to novelty, invent	ive step and industrial applicability
		Box No. IV	Lack of unit	y of invention		
		Box No. V		atement under Rule 43bis. 7; citations and explanation		novelty, inventive step or industrial
	X	Box No. VI	Certain docu	uments cited		
		Box No. VII	Certain defe	ects in the international app	plication	
		Box No. VIII	Certain obse	ervations on the internation	nal application	
2.	FURT	THER ACTION			•	
	Intern than t	ational Prelimina his one to be the	ry Examining . IPEA and the	Authority ("IPEA") excep	et that this does not application of the International Bur	ll be considered to be a written opinion of the ply where the applicant chooses an Authority othereau under Rule 66.1 bis(b) that written opinions of the control of the control opinions of the control opinion
	writte	n reply together,	where approp		before the expiration	A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Forn expires later.
	For fu	rther options, see	Form PCT/IS.	A/220.		
3.	For fu	rther details, see	notes to Form	PCT/ISA/220.		
Name	and maili	ng address of the	ISA/JP		Authorized officer	
Facsin	nile No.				Telephone No.	

Во	x No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c . `	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
		•
	•	

International application No. PCT/JP2005/001342

Box	k No. V			ale 43bis.1(a)(i) with regard to novelty, invention porting such statement	ve step or industrial applicability;	
1.	Statement					
	Novelty	(N)	Claims	1-7	Y	YES
			Claims		N	O
	Inventiv	ve step (IS)	Claims	4, 7	Y	YES
			Claims	1-3, 5, 6	N	O
	Industri	al applicability (IA)	Claims	1-7	Y	YES
			Claims		N	ΝO

2. Citations and explanations:

Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim 1 (Family: none)

The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art.

The inventions relating to claims 4 and 7 are not described in any of the documents cited in the ISR; nor would they be obvious to a party skilled in the art.

Box No. VI				
	Certain documents cited			
. Certain p	published documents (Rule 43bis.1 and	70.10)		
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid clain (day/month/year)
JI	2 2004-256592 A	16.09.2004	24.02.2003	(ady monity year)
	E, X]			
	2004-124086 A	22.04.2004	20.08.2003	13.09.2002
	E, X]			
•	•			
Non-writt	ten disclosures (Rule 43bis.1 and 70.9)			
	,		Date	e of written disclosure
	Kind of non-written disclosure	Date of non-written d (day/month/yea		g to non-written disclosure (day/month/year)
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PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP-8850PCT See paragraph 2 below International filing date (day/month/year) International application No. Priority date (day/month/year) PCT/JP2005/001342 31.01.2005 26.02.2004 International Patent Classification (IPC) or both national classification and IPC **Applicant** DAIKIN INDUSTRIES, LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP Telephone No. Facsimile No.

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	-	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
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		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	itional comments:
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Box	No. V Reasoned statement citations and expla				•	to novelty,	inventive	step or ind	ustrial a	pplicabi	lity;
1.,	Statement		•								
	Novelty (N)	Claims	1-7								YES
		Claims									NO
			4	•							•
	Inventive step (IS)	Claims	4, 7								YES
		Claims	1-3,	, 5, 6							NO
	Industrial applicability (IA)	Claims	1-7								YES
		Claims									NO
2.	Citations and explanations:										
	The inventions step based on documen	nt 1 cite	d in th		•	olymer	in a pol	ymer c	ompos	site ma	
	fluorinated elastomer (material serve as a sea composition would be The inventions cited in the ISR; nor w	perfluoling mareasy for	roelas terial (r a pai	tomer) that is a rty skill aims 4	lymer of so as to typical ed in the	make lappliche art.	the obta ation of	ined por	olyme rinated	r com	omer
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Certa	ain published documents (Rule 43bis.1 and	d 70.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing (day/mor		Priority date (valid cla (day/month/year)
	JP 2004-256592 A	16.09.2004	24.02	.2003	
	[E, X]	00 04 0004			
	JP 2004-124086 A	22.04.2004	20.08	.2003	13.09.200
	[E, X]				
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Non-v	written disclosures (Rule 43 <i>bis</i> .1 and 70.9)) .	<u>, </u>		
Non-	written disclosures (Rule 43 <i>bis</i> .1 and 70.9 Kind of non-written disclosure	Date of non-written di		referring	
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	Kind of non-written disclosure	Date of non-written di (day/month/yea	ar)	referring	to non-written disclosure (day/month/year)
	Kind of non-written disclosure	Date of non-written di (day/month/yea	er)	referring	to non-written disclosure (day/month/year)